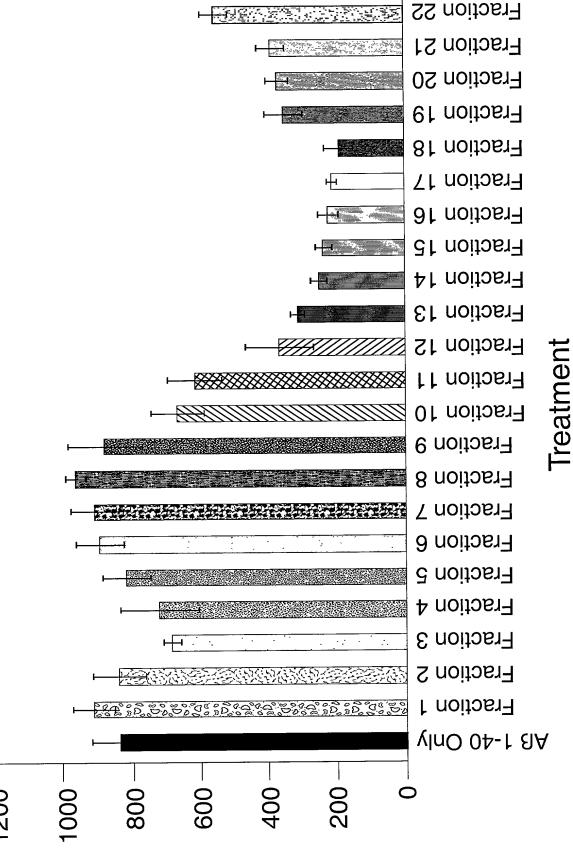
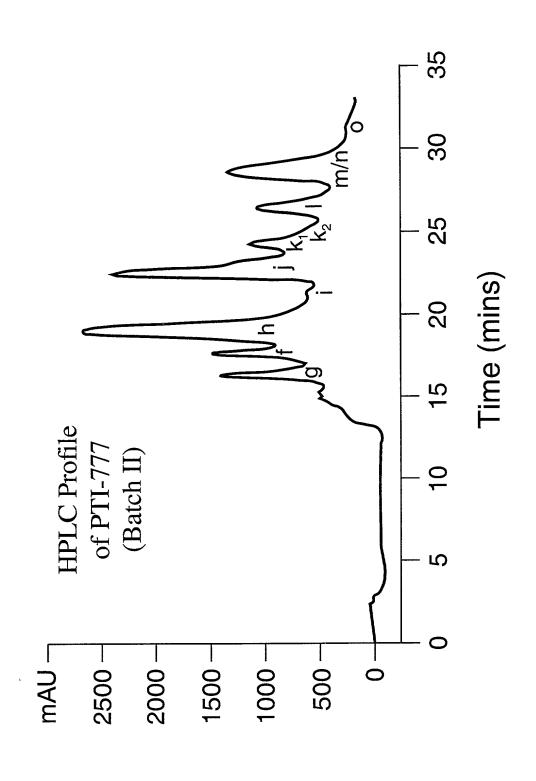
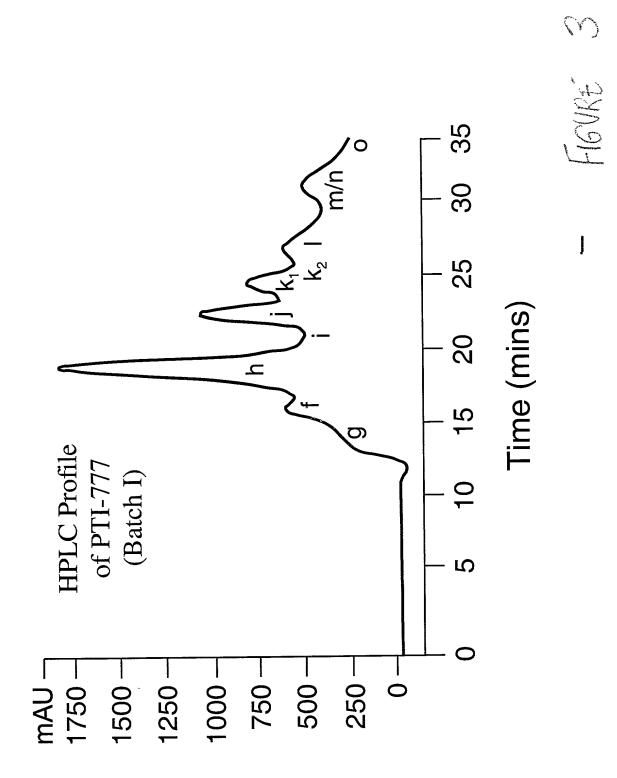
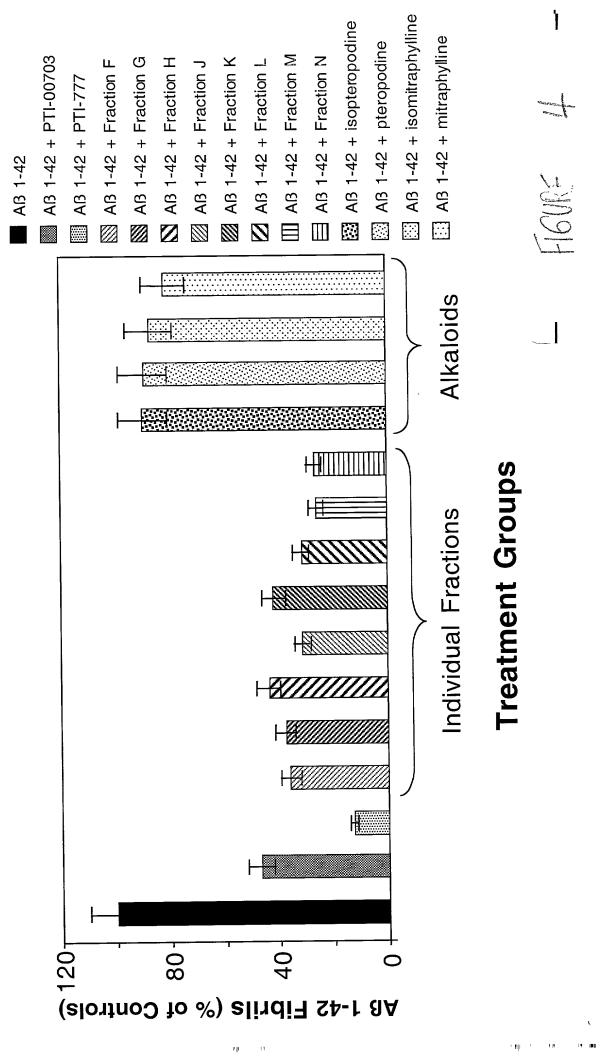
Fluorescence Units

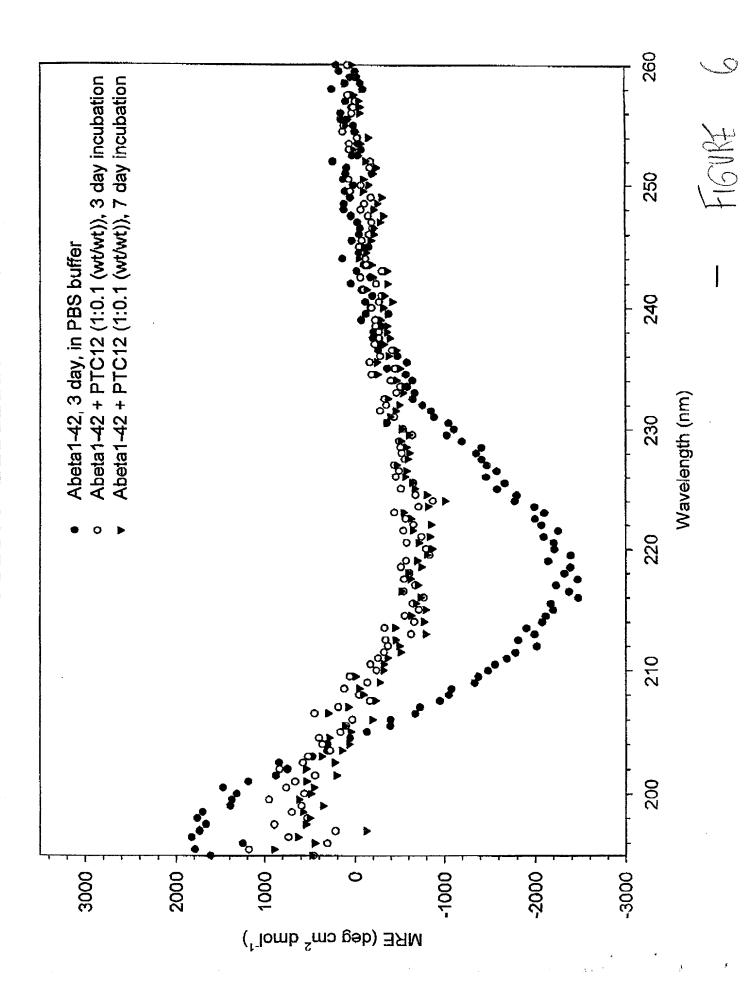


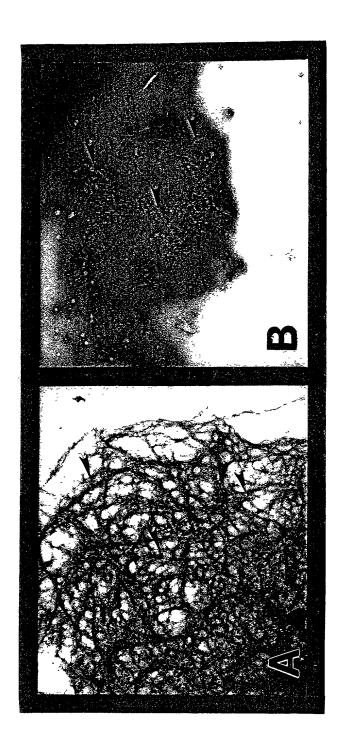


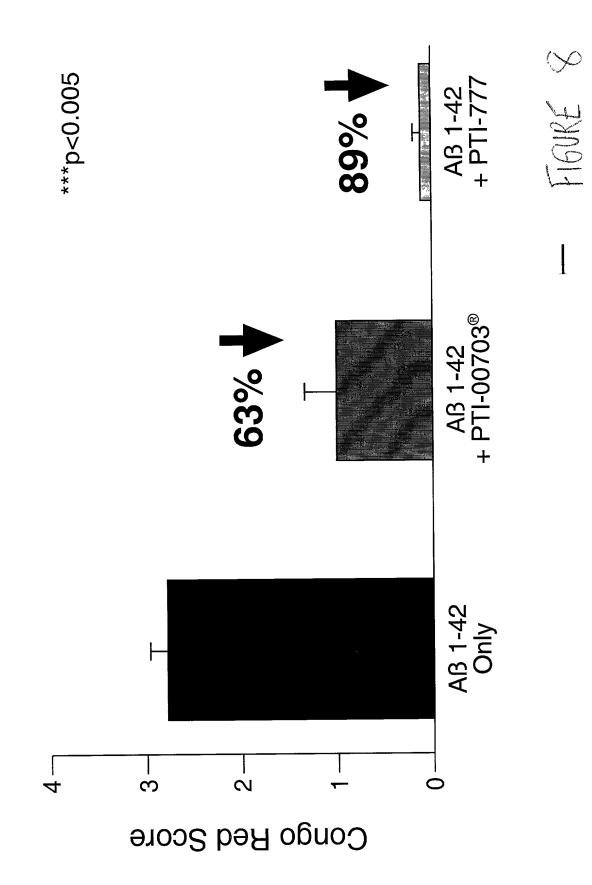
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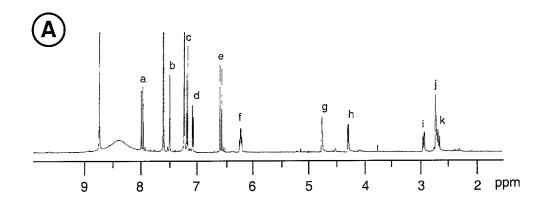


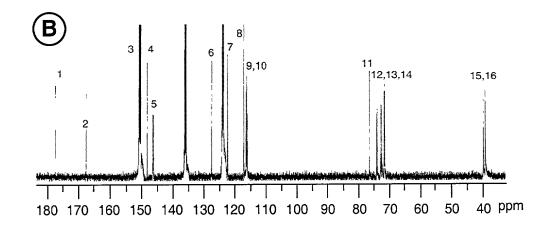


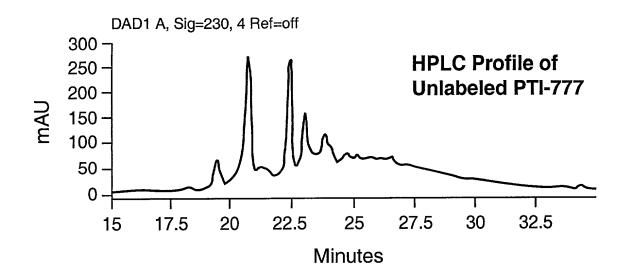


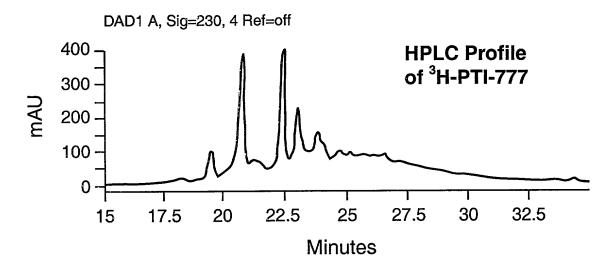


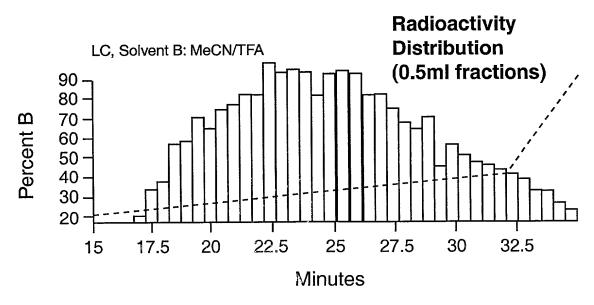




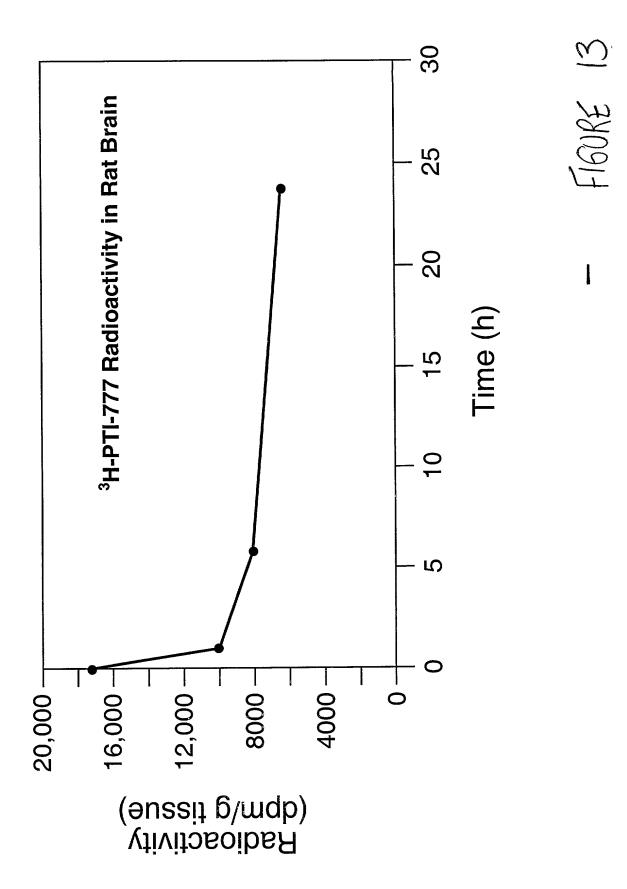








- FIGURE 12



Jaguar Summed Mass Spectrum Report

File Name:

G:__41.dat

Method Name: Sample ID:

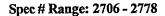
Instrument: **JAGUAR** Time Run:

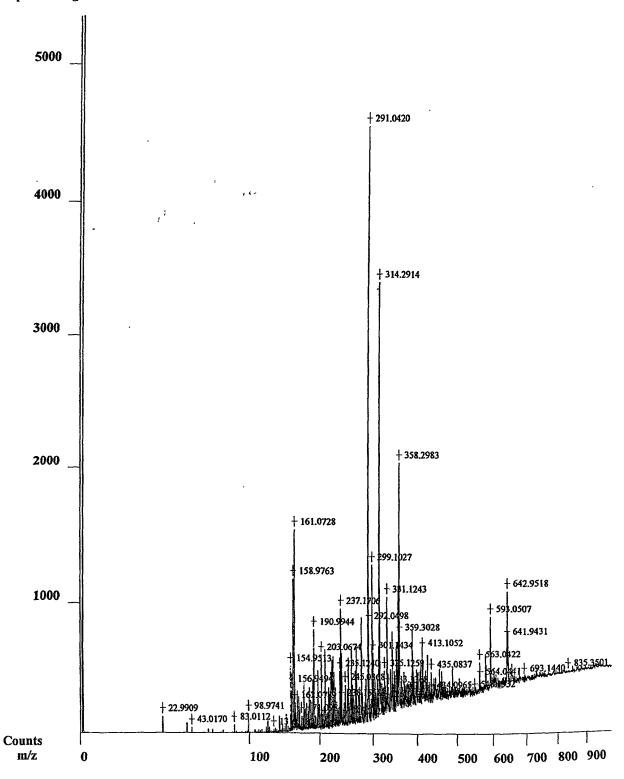
11/13/00 11:01:40 AM

Report Created: 11/13/00 11:03:26 AM

Operator:

Ionization Mode: ESI - positive ions





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in one in

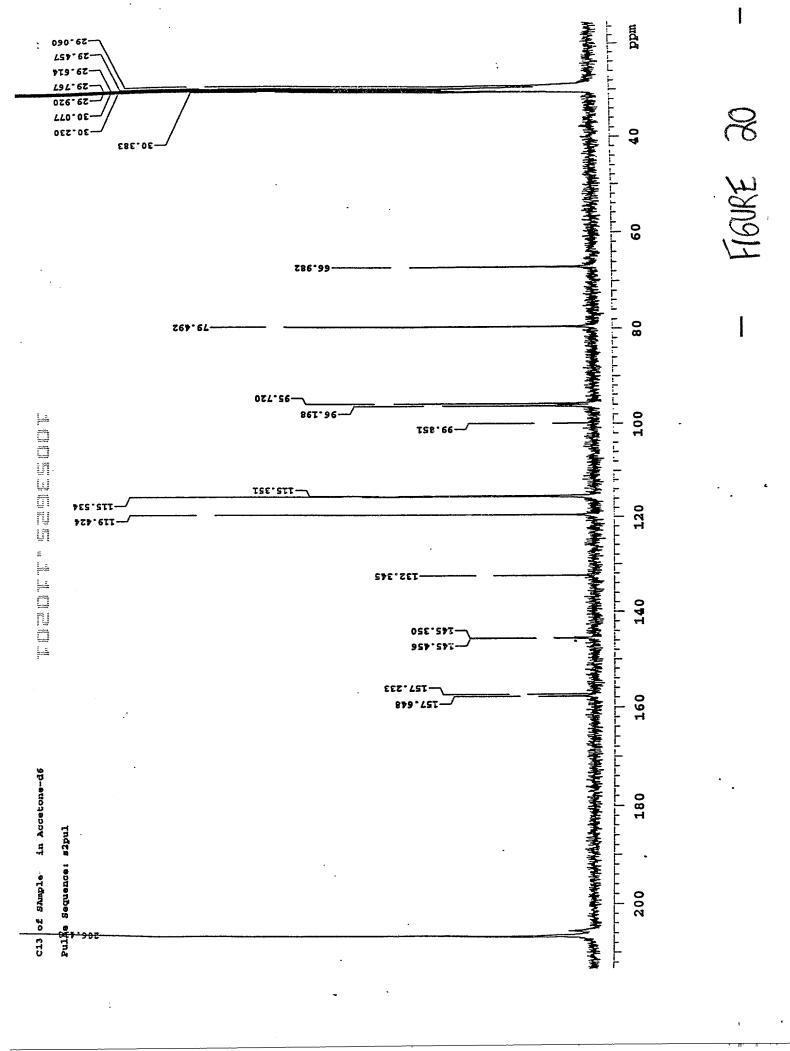
[Mass Spectrum] Data : BYU_A776 Sample: 1 Nate : FIGURE 16 Ion Mode : EI+ Inlet : Direct Spectrum Type : Normal Ion [MF-Linear] RT : 0.64 min Scan# : (5,8) Int. : 135.19 BP: m/z 140.0000 Output m/z range : 50.0000 to 362.6855 Cut Level : 0.00 % that they then they first find they 5Ø W. The first fi 50-Ши m/7

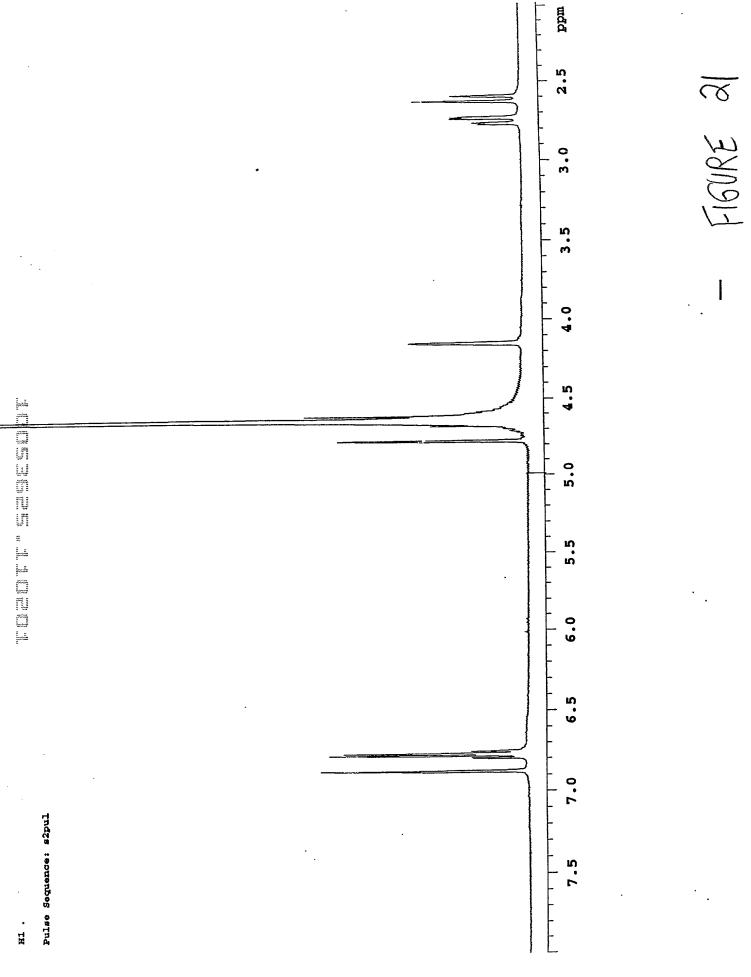
· Illinia esta din

THE PERMIT

[Mass Spectrum]
Data : BYU_A349 FIGURE 17 Sample: acylated 1 Note: ThioGlycerol & Na Ion Mode : FAB+ Inlet : Direct Spectrum Type : Normal Ion [MF-Linear] Scan# : (1,4) RT : 0.08 min BP: m/z 523.0000 Int. : 322.38 Output m/z range : 240.0000 to 642.3739 Cut Level : 0.00 % 100-The season was the ten season and the season and th Ε 50-600 620 640 m/z

[Mass Spectrum] Data : BYU_A373 Sample: acylated-1 FROME 12 Note: Inlet : Direct Ion Mode : EI+ Spectrum Type : Normal Ion [MF-Linear] Scan# : (7,9)-k((3,4))[k=1.0] Int. : 68.70 RT : 0.89 min BP : m/z 398.0000 Output m/z range : 50.0000 to 564.0950 Cut Level : 0.00 % 100-The said that the true for the said that the 50-0-





L.

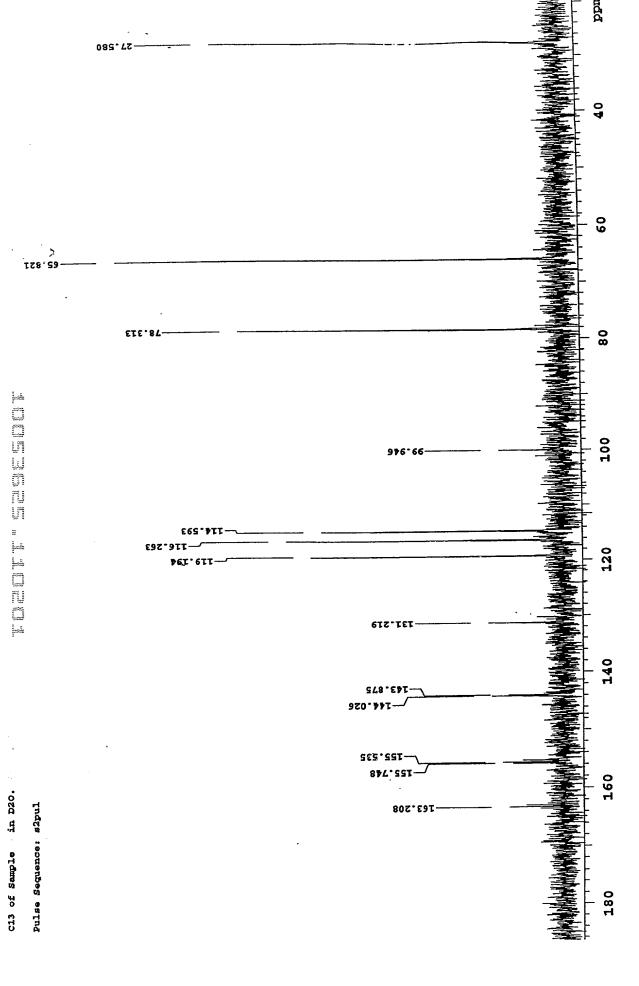


FIGURE 213

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FIGURE 23 F1 (ppm) ល **⊘** 0 F2 (ppm)-

COSY of Sample

Pulse Sequence: relayh Solvent: Acetone Ambient temperature

UNITY-500 "xxx500"

PULSE SEQUENCE: relayh
COSY 90-90
Acq. time 0.302 sec
Width 3817.5 Hz
2D Width 3817.5 Hz
16 repetitions
159 increments
085ENVE H1, 499.8814428 MHz
DATA PROCESSING
FI DATA PROCESSING
FI DATA PROCESSING
FI Size 1024 x 1024
Total time 14 min, 12 sec

COSY

120 increments
OBSERVE H1, 499.8801324
DATA PROCESSING
Line broadening 0.1 Hz
F1 DATA PROCESSING
Line broadening 0.3 Hz
FT size 1024 x 1024
Total time 11 min, 23 sec

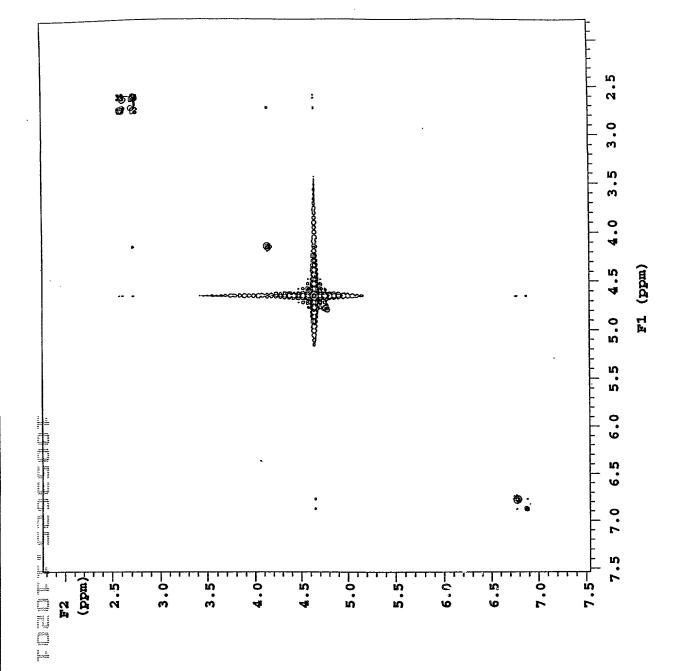


FIGURE 24A

Ø. F1 (ppm) 3.4 3.6 3.8 4.0 4.2. F2 (PDM) 3.4 3.8 3.2 2.8 3.0 3.6 ۲ ا

Pulse Sequence: relayh

COSX

Ambient temperature UNITY-500 "nmr500" Solvent: D20

PULSE SEQUENCE: relayh

Relax. delay 0.500 sec COSY 90-90

Acg. time 0.178 sec Width 2882.3 Hz 2D Width 2882.3 Hz

8 repetitions

DATA PROCESSING 120 increments

OBSERVE H1, 499.8801324 MHz Line broadening 0.1 Hz FI DATA PROCESSING

Fr size 1024 x 1024 Total time 11 min, 23 sec Line broadening 0.3 Hz

Pulse Sequence: relayh COSY

OULSE SEQUENCE: relayh COSY 90-90

Ambient temperature

Solvent: D20

UNITY-500 "nur500"

Relax. delay 0.500 sec Acq. time 0.178 sec 2882.3 Hz 2D Width 2882.3 Hz 120 increments 8 repetitions Width

OBSERVE H1, 499.8801324 MHz Total time 11 min, 23 sed Line broadening 0.1 Hz Line broadening 0.3 Hz FT size 1024 x 1024 FI DATA PROCESSING DATA PROCESSING

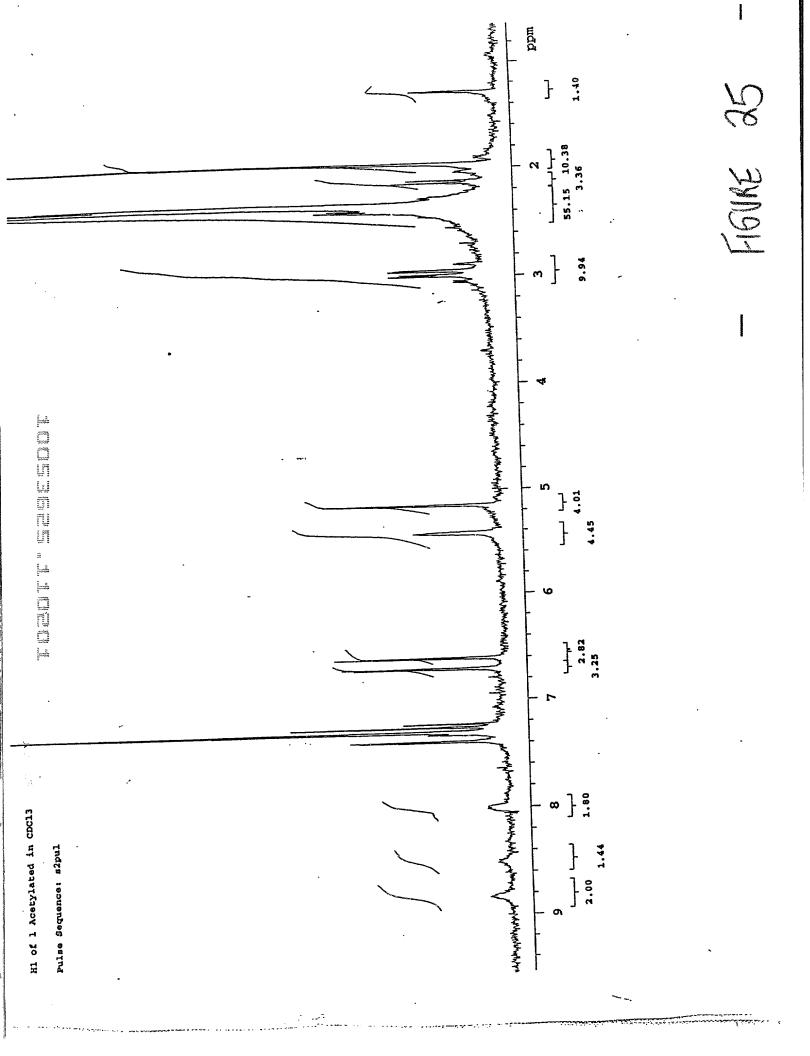


FIGURE 26

Pulse Sequence: relayh

Solvent: CDC13 Temp. 26.0 C / 299.1 K INOVA-500 "nmr500" Relax. delay 0.500 sec
COSY 90-90
Acq. time 0.128 sec
Width 8000.0 Hz
2D Width 8000.0 Hz
16 repetitions
512 increments
OBSERVE HI, 499.9135718 MHz
DATA PROCESSING
Sine bell 0.064 sec
FI DATA PROCESSING
Sine bell 0.032 sec
FT size 2048 x 2048
Total time 1 hr, 31 min, 32 sec

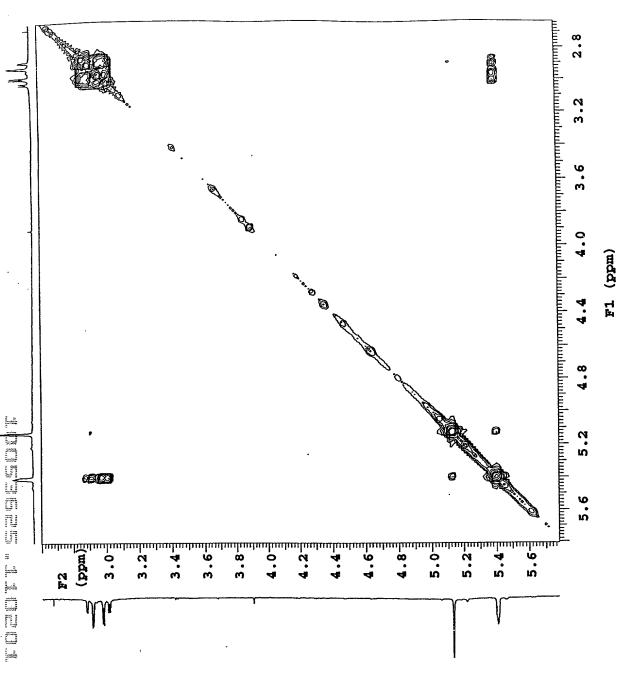


FIGURE 27

HETCOR of Acetylated in CDC13.

- FIGURE 38A

F2 (ppm)

HETCOR of Acetylated in CDC13.

Pulse Sequence: hetcor

F1611RE 38B

TOTAL CENTRAL GENERAL Pulse Sequence: hetcor

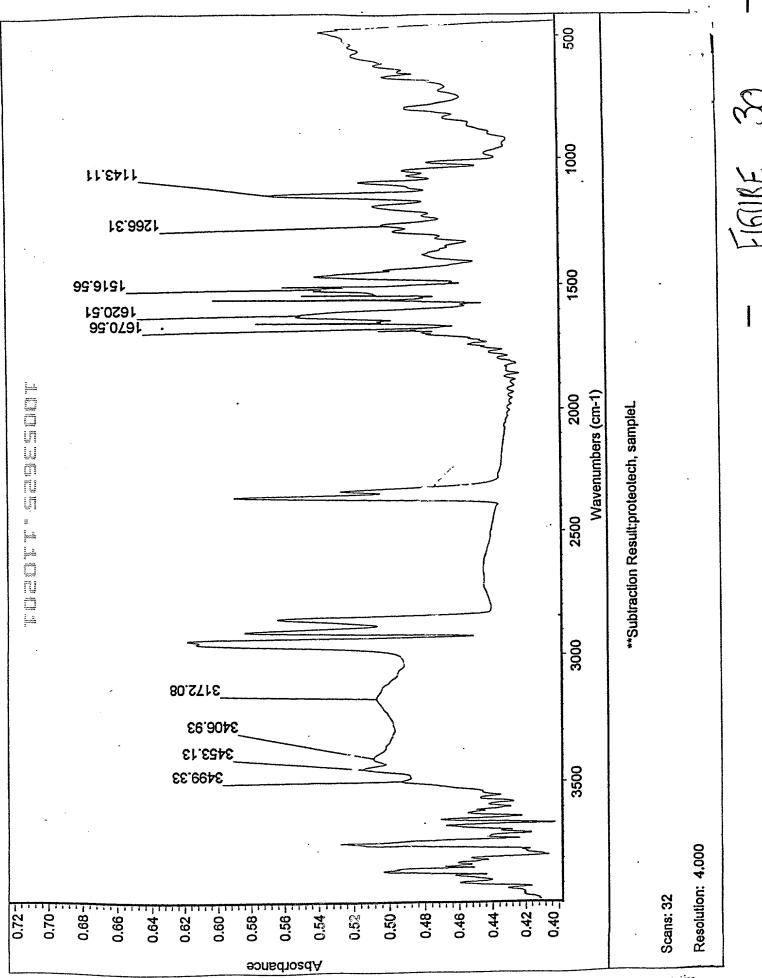
22 23 24 **7**2 **7** 27 **5** 29 ドメ 30 31 **4** 4 2. 6. hundun F.1 (DDM) Ծ վասկաւ 2 2 mland . 0. mhmi 덛 Potal time 10 hr, 46 min, 21 sed OBSERVE C13, 125.7033376 MHz DECOUPLE H1, 499.9160715 MHz Power 38 dB Solvent: CDC13 Temp. 26.0 C / 299.1 K User: 1-14-87 Line broadening 2.0 Hz Line broadening 0.3 Hz Relax. delay 1.000 sec on during acquisition Acq. time 0.082 sec 25000.0 HZ PT vizo 4596 x 1024 INOVA-500 "nmr500" 2D Width 4614.9 Hz WALTZ-16 modulated FL DATA PROCESSING off during delay 208 repetitions DATA PROCESSING 256 increments Width

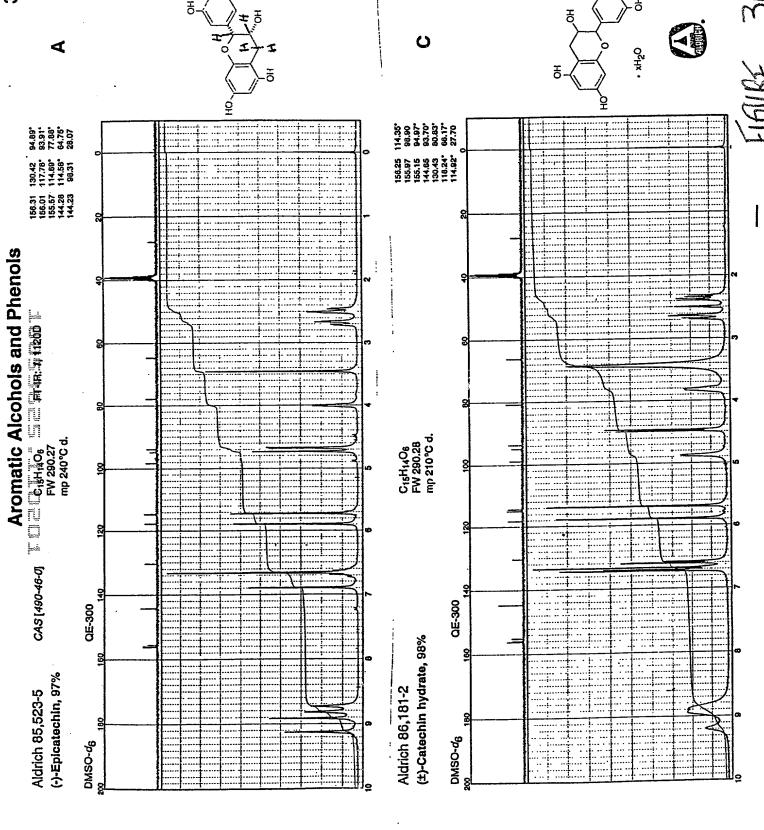
FOR SC

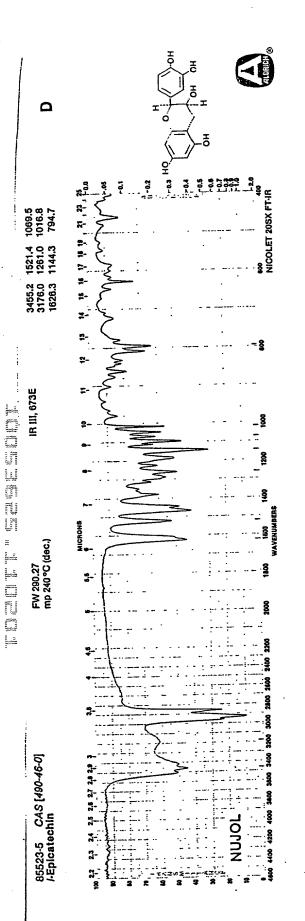
F2 (ppm)

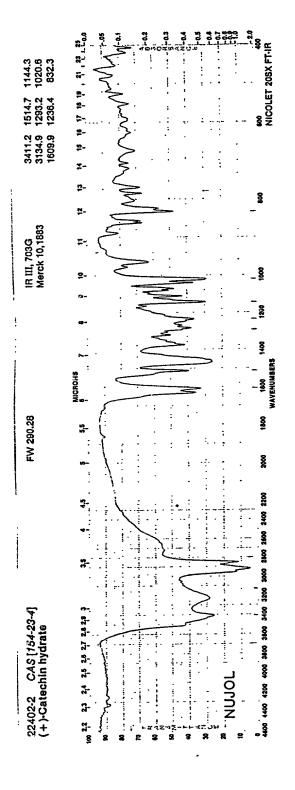
rectory: VIEW A(1: 200 nm A(1: 200 nm A(1: 400 nm S(1: 400 nm S(1: 400 nm A(1:	vint: [N		
(00	ve: LNU per sampla al: 15.00	Method name: A:\DEFAU Autosave name: [A:\]S Sampling device: None] Scan speed: 600 nm/m	CANS in
ZoomOut Trace	Function	Autoscale Annotate	Print
Scan		Smoothing: None	6
	-	-	
, and a second			•
			•
- <u>R</u>	age length	1 (nm) 1 310 360	400.0

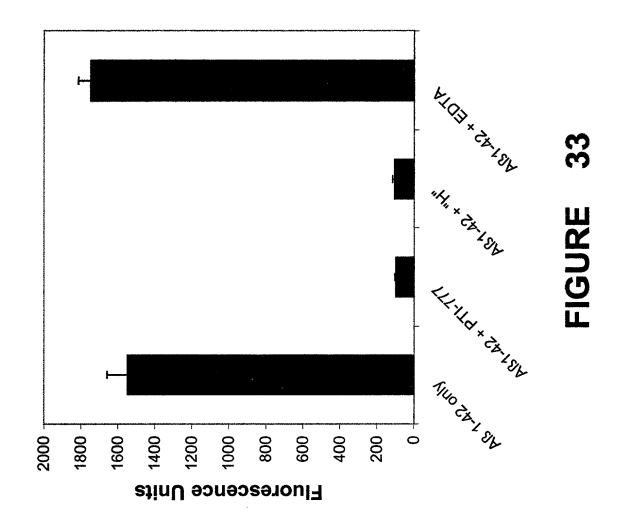
FIGURE 39











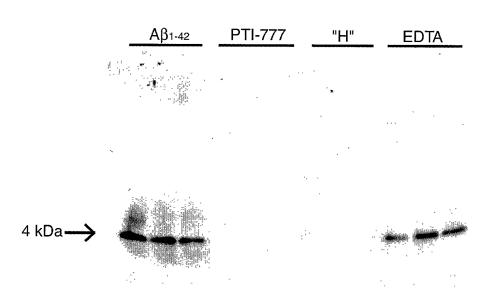


FIGURE 34